World Resources Company

Form: FM-M01

RECYCLABLE MATERIAL PROFILE — EXHIBIT A

Generator Name: Alaskan Copper Works **Company I.D. #:** 22149-001-01

A. Generator Information

1. Address: 3200 Sixth Avenue South
   Seattle
   WA 98124
2. Contact: Gerald Thompson
   Title: Environmental Assistant
3. Material EPA Waste Code: F006
4. Generator's EPA I.D. Number: WAD980738546
5. Generator's State I.D. Number:

B. Recyclable Material Characteristics

1. **Color(s):** Brown
2. **Odor** (none,mild,strong): None
   Description of Odor:
3. **Moisture** (wet,damp,dry): Wet
   Percent Solids: 31.2
4. **pH** (EPA SW 846, method 9040/9045): pH: 8.12 @ 22.2°C
5. **Ignitability** (40 CFR §261.21): ☑ PASS ☐ FAIL
6. **Texture** (similar to): ☑ Wet Clay ☐ Dry Clay ☐ Sand ☐ Powder ☐ Other
7. **Appearance**: ☑ Homogenous ☐ Bilayered ☐ Multilayered
8. **Organic Vapors**: ☐ Present ☑ Not Present (< 1ppm) ☑ Pass ☐ Fail
   If present, identify compounds and amount in ppm on a wet basis.
9. **Free Liquids** (EPA SW 846, Method 9095): ☑ Not Present ☐ Present
10. **Debris**: ☑ Not Present ☐ Present
11. **Reactivity**: ☑ Not Reactive ☐ Reactive
12. **Radionuclides** (ASTM D5928-96): ☑ Not Detected ☐ Detected
13. **Cyanide Gas HCN**: ☑ Not Detected ☐ Detected _____ ppm

C. Analytical Data

(Content on a dry weight basis in ppm or %)

	Constituent *		Content	Qualifier
1.	Aluminum [1]	Al	17700.0 ppm	
2.	Antimony [1,†]	Sb	28.7 ppm	
3.	Arsenic [1,†]	As	50.4 ppm	
4.	Barium [1,†]	Ba	136.0 ppm	
5.	Beryllium [1,†]	Be	< 10.0 ppm	M7
6.	Bismuth [1]	Bi	62.4 ppm	
7.	Cadmium [1,†]	Cd	< 20.0 ppm	
8.	Calcium [1]	Ca	18100.0 ppm	
9.	Chloride [4]	Cl^-	0.21 %	
10.	Chromium, Hexavalent [2]	Cr^{+6}	2311.8 ppm	
11.	Chromium, Total [1,†]	Cr	45400.0 ppm	M3
12.	Cobalt [1]	Co	697.0 ppm	M3
13.	Copper [1,†]	Cu	40900.0 ppm	
14.	Cyanide, Amenable [3,†]	CN^-	not analyzed	
15.	Cyanide, Total [3,†]	CN^-	< 32.0 ppm	Z3
16.	Fluoride [4]	F^-	0.45 %	
17.	Iron [1]	Fe	223000.0 ppm	M3
18.	Lead [1,†]	Pb	98.4 ppm	
19.	Magnesium [1]	Mg	3250.0 ppm	
20.	Manganese [1]	Mn	5190.0 ppm	
21.	Mercury [1]	Hg	< 5.8 ppm	M1
22.	Nickel [1,†]	Ni	55100.0 ppm	M3
23.	Selenium [1,†]	Se	< 50.0 ppm	
24.	Silver [1,†]	Ag	< 5.0 ppm	M2
25.	Thallium [1,†]	Tl	< 20.0 ppm	
26.	Tin [1,†]	Sn	< 100.0 ppm	
27.	Zinc [1,†]	Zn	972.0 ppm	

*** Analytical Procedure References**

1. EPA Method SW846 3050 / 6010 (Digestion / Analysis)
2. EPA Method SW846 3060 / 7196 (Extraction / Analysis)
3. EPA Method SW846 9010 / 9213 or 9014 (Distillation / Anaylsis)
4. HNO_3 or H_2O_2 / EPA Method SW846 9056 (Digestion / Analysis)

† Licensed Constituent

D. Certification

I hereby certify that all information submitted in this profile is complete and accurate to the best of my knowledge and belief.

Signed: _____ **Date:** 7/16/10

Title: Laboratory Manager **AZ DHS #:** AZ0586

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QA/QC DATA

EXHIBIT A

Generator Name: Alaskan Copper Works **Company I.D. #: 22149-001-01**

QA/QC Criteria: All analyses met method criteria unless otherwise noted.

Explanation of Data Qualifiers:

M2	Matrix spike recovery was low; the associated blank spike recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike recovery was acceptable.
M7	Matrix spike recovery was low. Data reported per ADEQ policy 0154.000.
Z3	The duplicate sample did not meet method acceptance limits due to the lack of sample homogeneity.
M1	Matrix spike recovery was high; the associated blank spike recovery was acceptable.

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SAMPLE COLLECTION & ANALYSIS COMPLETION DATES — EXHIBIT A

Generator Name: Alaskan Copper Works — **Company I.D. #: 22149-001-01**

	Constituent		Sample Date	Completion Date	Sample Technician
1.	pH		01/19/2010 11:54	01/19/2010 15:00	LEONEL GARCIA
2.	Aluminum	Al	01/19/2010 11:54	07/14/2010 13:22	LEONEL GARCIA
3.	Antimony	Sb	01/19/2010 11:54	07/14/2010 13:22	LEONEL GARCIA
4.	Arsenic	As	01/19/2010 11:54	07/14/2010 13:22	LEONEL GARCIA
5.	Barium	Ba	01/19/2010 11:54	07/14/2010 13:22	LEONEL GARCIA
6.	Beryllium	Be	01/19/2010 11:54	07/14/2010 13:22	LEONEL GARCIA
7.	Bismuth	Bi	01/19/2010 11:54	07/14/2010 13:22	LEONEL GARCIA
8.	Cadmium	Cd	01/19/2010 11:54	07/14/2010 13:22	LEONEL GARCIA
9.	Calcium	Ca	01/19/2010 11:54	07/14/2010 13:22	LEONEL GARCIA
10.	Chloride	Cl^-	01/19/2010 11:54	01/22/2010 12:00	LEONEL GARCIA
11.	Chromium, Hexavalent	Cr^{+6}	01/19/2010 11:54	06/10/2010 15:00	LEONEL GARCIA
12.	Chromium, Total	Cr	01/19/2010 11:54	07/14/2010 13:22	LEONEL GARCIA
13.	Cobalt	Co	01/19/2010 11:54	07/14/2010 13:22	LEONEL GARCIA
14.	Copper	Cu	01/19/2010 11:54	07/14/2010 13:22	LEONEL GARCIA
15.	Cyanide, Amenable	CN^-			
16.	Cyanide, Total	CN^-	01/19/2010 11:54	02/02/2010 12:00	LEONEL GARCIA
17.	Fluoride	F^-	01/19/2010 11:54	01/22/2010 12:00	LEONEL GARCIA
18.	Iron	Fe	01/19/2010 11:54	07/14/2010 15:35	LEONEL GARCIA
19.	Lead	Pb	01/19/2010 11:54	07/14/2010 13:22	LEONEL GARCIA
20.	Magnesium	Mg	01/19/2010 11:54	07/14/2010 13:22	LEONEL GARCIA
21.	Manganese	Mn	01/19/2010 11:54	07/14/2010 13:22	LEONEL GARCIA
22.	Mercury	Hg	01/19/2010 11:54	07/14/2010 13:22	LEONEL GARCIA
23.	Nickel	Ni	01/19/2010 11:54	07/14/2010 13:22	LEONEL GARCIA
24.	Selenium	Se	01/19/2010 11:54	07/14/2010 13:22	LEONEL GARCIA
25.	Silver	Ag	01/19/2010 11:54	07/14/2010 13:22	LEONEL GARCIA
26.	Thallium	Tl	01/19/2010 11:54	07/14/2010 13:22	LEONEL GARCIA
27.	Tin	Sn	01/19/2010 11:54	07/14/2010 13:22	LEONEL GARCIA
28.	Zinc	Zn	01/19/2010 11:54	07/14/2010 13:22	LEONEL GARCIA

World Resources Company
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Tolleson, AZ 85353-4025
Tel: 800.972.1955
Fax: 623.936.9164

July 16, 2010

Mr. Gerald Thompson
Environmental Assistant
Alaskan Copper Works
3200 Sixth Avenue South
Seattle, WA 98124

Dear Mr. Thompson:

In accordance with the recycling Agreement with your company, World Resources Company (WRC) provides a "RECYCLABLE MATERIAL PROFILE" (RMP) each contract year. Enclosed, for your records, is a completed RMP for the material generated at your plant. If a qualifier is indicated on the RMP, WRC has provided a quality assurance/quality control case narrative to validate the constituent's result(s).

The concentration of metals reported on the RMP is the total concentration of each metal on a dry basis. The recyclable material is prepared for analysis by first grid-sampling and then drying the selected sample in the laboratory oven at 103°-105° centigrade in order to obtain a homogeneous dry sample (Standard Methods For The Examination of Water and Wastewater, 15th Edition, published by the American Public Health Association 1980, Method 209A "Total Residue at 103°-105° centigrade"). Therefore, these results are generally higher than the concentrations of your material as it leaves your facility. You should multiply these dry concentrations by the decimal form of your percent solids (i.e. 50.0% = 0.50) to obtain the concentration of your material as it leaves your plant.

WRC appreciates your business and looks forward to a long and mutually beneficial recycling relationship. Please feel free to call me at (800) 972-1955 with any questions you may have regarding the enclosed RMP. Thank you for your interest in recycling.

Sincerely,

World Resources Company

Jason Hensley
Laboratory Manager

Enclosures